

CLAIMS

What is claimed is:

1 1. A server, comprising:
2 a circuit board comprising a first electrical connector disposed on a first side of
3 the circuit board and a second electrical connector disposed on a second side of the
4 circuit board opposite the first side of the circuit board;
5 a chassis having at least one of a front opening and a rear opening;
6 a board holder operable to receive the circuit board and provide access to the first
7 electrical connector and the second electrical connector, wherein the board holder is
8 operable to be pivoted relative to the chassis to enable the circuit board to be disposed
9 within the board holder via the at least one of the front opening and the rear opening; and
10 a securing member operable to selectively secure pivotal movement of the circuit
11 board relative to the chassis.

1 2. The server as recited in claim 1, wherein the securing member is operable
2 to secure the circuit board in a vertical position.

1 3. The server as recited in claim 2, wherein the securing member is operable
2 to release the pivotal board holder to enable the circuit board to be pivoted toward a
3 horizontal position.

1 4. The server as recited in claim 1, wherein the board holder is fully disposed
2 within the chassis during operation.

1 5. The server as recited in claim 1, wherein the circuit board is coupled to a
2 component external to the board holder on one of the first side of the circuit board and
3 the second side of the circuit board.

1 6. The server as recited in claim 1, comprising a processor assembly
2 connectable to the first electrical connector.

1 7. The server as recited in claim 1, comprising an input/output device
2 connectable to the second electrical connector.

1 8. The server as recited in claim 1, wherein the circuit board comprises a
2 third electrical connector disposed on the first side of the circuit board, and wherein the
3 server comprises a memory storage device connectable to the third electrical connector.

1 9. A method of coupling a circuit board to a chassis of a server, comprising:
2 inserting the circuit board into the circuit board holder through a side of the
3 server;
4 rotating the circuit board holder into a first position such that the circuit board is
5 coupleable to an electrical component on each of a first side of the circuit board and a
6 second side of the circuit board opposite the first side of the circuit board; and
7 engaging the circuit board holder securing device to secure the circuit board and
8 the circuit board holder in the first position.

1 10. The method as recited in claim 9, comprising connecting at least one
2 component to an electrical connector disposed on one of the first side of the circuit board
3 and the second side of the circuit board.

1 11. The method as recited in claim 9, comprising:
2 operating a circuit board holder securing device to release a circuit board holder
3 for pivoting relative to the chassis; and
4 pivoting the circuit board holder from a first position to a second position.

1 12. The method as recited in claim 10, wherein connecting at least one
2 component connected to an electrical connector disposed on one of the first side of the

3 circuit board and the second side of the circuit board comprises connecting a data storage
4 assembly to the circuit board.

1 13. The method as recited in claim 11, wherein pivoting the circuit board
2 holder comprises pivoting the circuit board holder toward a front side of the server.

1 14. The method as recited in claim 13, wherein inserting the circuit board into
2 the circuit board holder through the side of the server comprises inserting the circuit
3 board through the front side of the server.

1 15. The method as recited in claim 11, wherein pivoting the circuit board
2 holder comprises pivoting the circuit board holder toward a rear side of the server.

1 16. The method as recited in claim 15, wherein inserting the circuit board into
2 the circuit board holder through the side of the server comprises inserting the circuit
3 board through the rear side of the server.

1 17. A server, comprising:
2 means for pivoting a circuit board holder relative to a server chassis;
3 means for selectively securing the circuit board holder in a first position relative
4 to the server chassis; and
5 means for coupling at least one electronic component to each of a first side of the
6 circuit board and a second side of the circuit board, opposite the first side of the circuit
7 board, through an aperture in the circuit board holder when the circuit board holder is in
8 the first position relative to the server chassis.

1 18. The server as recited in claim 17, comprising means for operating a circuit
2 board holder securing device to release the circuit board holder for pivoting relative to the
3 server chassis.

1 19. The server as recited in claim 17, comprising means for removing a circuit
2 board from the circuit board holder when the circuit board holder is pivoted to a second
3 position relative to the server chassis.

1 20. The server as recited in claim 17, comprising means for connecting a
2 memory storage device to the first side of the circuit board and the second side of the
3 circuit board when the circuit board holder is secured in the first position relative to the
4 server chassis.